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SUPER TUNER IIID

Operation Manual

使用說明書

High power CD/MP3/WMA player with FM/AM tuner

備FM/AM調諧器之高功率CD/MP3/WMA播放機

DEH-3790MP
DEH-3750MP

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<KMMZX> <04J00000>

Contents

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this manual in a safe place for future reference.

Before You Start

About this unit

**CAUTION:
USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

**CAUTION:
THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.**

⚠ **CAUTION**

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, this unit damage, smoke, and overheat could result from contact with liquids.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so that you can hear sounds from outside the vehicle.
- Protect this unit from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.
- If this unit does not operate properly, contact your dealer or nearest authorized Pioneer Service Station. ▣

Features

CD playback
Music CD/CD-R/CD-RW playback is possible.

MP3 file playback
You can play back MP3 files recorded on CD-ROM/CD-R/CD-RW (ISO9660 Level 1/Level 2 standard recordings).

- Supply of this product only conveys a license for private, non-commercial use and

does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such uses is required. For details, please visit http://www.mp3licensing.com.

WMA file playback
You can play back WMA files recorded on CD-ROM/CD-R/CD-RW (ISO9660 Level 1/Level 2 standard recordings).

WAV file playback
You can play back WAV files recorded on CD-ROM/CD-R/CD-RW (Linear PCM (LPCM)/MS ADPCM recordings). ▣

About WMA

The Windows Media™ logo printed on the box indicates that this unit can play back WMA data.
WMA is short for Windows Media Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.

Before You Start

Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Notes

- With some applications used to encode WMA files, this unit may not operate correctly.
- With some applications used to encode WMA files, album names and other text information may not be correctly displayed. ▣

Use and care of the remote control

Installing the battery

Slide the tray out on the back of the remote control and insert the battery with the plus (+) and minus (–) poles pointing in the proper direction.
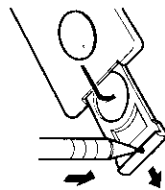
⚠ WARNING

Keep the battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.

⚠ CAUTION

- Use only one **CR2025 (3 V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- Do not recharge, disassemble, heat or dispose of the battery in fire.
- Do not handle the battery with metallic tools.

- Do not store the battery with metallic materials.
- In the event of battery leakage, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institutions' rules that apply in your country/area.

Using the remote control

Point the remote control in the direction of the front panel to operate.

🔧 Important

- Do not store the remote control in high temperatures or direct sunlight.
- The remote control may not function properly in direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal. ▣

Protecting your unit from theft

The front panel can be detached from the head unit and stored in the protective case provided to discourage theft.

🔧 Important

- Never use force or grip the display and the buttons too tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

English

Before You Start

Removing the front panel

1 Press DETACH to release the front panel.
Press **DETACH** and the right side of the panel is released from the head unit.

2 Grab the front panel and remove.
Grab the right side of the front panel and pull away to the left. The front panel will be detached from the head unit.
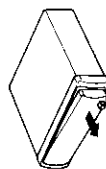
3 Put the front panel into the protective case provided for safe keeping.

Attaching the front panel

1 Place the front panel flat against the head unit.

2 Press the front panel into the face of the head unit until it is firmly seated. ▣

What's What
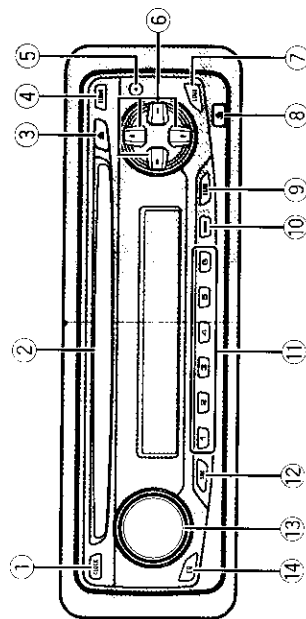
Head unit

① **CLOCK button**
Press to change to the clock display.

② **Disc loading slot**
Insert a disc to play.

③ **EJECT button**
Press to eject a CD from your built-in CD player.

④ **AUDIO button**
Press to select various sound quality controls.

⑤ **DISPLAY button**
Press to select different displays.

⑥ **▲/▼/◄/► buttons**
Press to do manual seek tuning, fast forward, reverse and track search controls.
Also used for controlling functions.

⑦ **LOUDNESS button**
Press to turn loudness on or off.

⑧ **DETACH button**
Press to remove the front panel from the head unit.

⑨ **BAND button**
Press to select among three FM bands and one AM band and to cancel the control mode of functions.

⑩ **LOCAL/BSM button**
Press to turn local function on or off.
Press and hold to turn BSM function on or off.

⑪ **1-6 buttons**
Press for preset tuning.

⑫ **SOURCE button**
This unit is turned on by selecting a source.
Press to cycle through all the available sources.

⑬ **VOLUME**
Rotate it to increase or decrease the volume.

⑭ **EQ button**
Press to select various equalizer curves. ◼

What's What
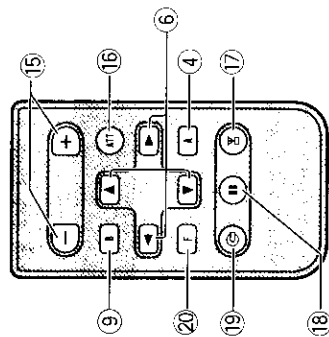
Remote control

Operation is the same as when using the buttons on the head unit. See the explanation of the head unit about the operation of each button with the exception of **ATT**, which is explained below.

⑮ **VOLUME button**
Press to increase or decrease the volume.

⑯ **ATT button**
Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

⑰ **TUNER button**
Press to select the tuner as the source.

⑱ **PAUSE button**
Press to turn pause on or off.

⑲ **CD button**
Press to select the built-in CD player as the source.

⑳ **FUNCTION button**
Not used. ◼

Turning the unit on and selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in the unit (refer to page 11).

● **When using the head unit, press SOURCE to select a source.**
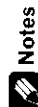Press **SOURCE** repeatedly to switch between the following sources:

Built-in CD player—Tuner

When you select a source the unit is turned on.

● **When using the remote control, press TUNER or CD to select a source.**
Press each button repeatedly to switch between the following sources:

TUNER: Tuner—Sources off
**CD: Built-in CD player—Sources off**

Notes

• When no disc has been set in the unit, the source will not switch to the built-in CD player.
• When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off.

Turning the unit off

● **Press SOURCE and hold until the unit turns off.**

Tuner

Listening to the radio
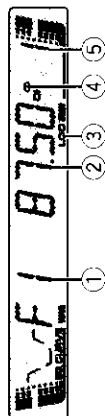
Important

If you are using this unit in North, Central or South America, reset the AM tuning step (see *Setting the AM tuning step* on page 22).

① **Band indicator**
Shows which band the radio is tuned to, AM or FM.

② **Frequency indicator**
Shows to which frequency the tuner is tuned.

③ **LOC indicator**
Shows when local seek tuning is on.

④ **Stereo (◯) indicator**
Shows that the frequency selected is being broadcast in stereo.

⑤ **Preset number indicator**
Shows which preset has been selected.

1 Press SOURCE to select the tuner.

2 Use VOLUME to adjust the sound level.

3 Press BAND to select a band.
Press **BAND** until the desired band is displayed, **F1, F2, F3** for FM or **AM**.

4 To perform manual tuning, briefly press ◀ or ▶.

5 To perform seek tuning, press and hold ◀ or ▶ for about one second and release.
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
■ You can cancel seek tuning by briefly pressing either ◀ or ▶.
■ If you press and hold ◀ or ▶ you can skip stations. Seek tuning starts as soon as you release the button.

Storing and recalling broadcast frequencies

If you press any of the preset tuning buttons **1–6** you can easily store up to six broadcast frequencies for later recall with the touch of a button.

● **When you find a frequency that you want to store in memory press one of preset tuning buttons 1–6 and hold until the preset number stops flashing.**
The number you have pressed will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.
The next time you press the same preset tuning button the radio station frequency is recalled from memory.

Notes

• Up to 18 FM stations, six for each of the three FM bands, and six AM stations can be stored in memory.
• You can also use ▲ and ▼ to recall radio station frequencies assigned to preset tuning buttons **1–6.**

Tuner

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

● **Press LOCAL/BSM repeatedly to turn local seek tuning on or off.**
When local seek tuning is on, **LOC** appears in the display.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning buttons **1–6** and once stored there you can tune in to those frequencies with the touch of a button.

• Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using buttons **1–6**.

● **Press LOCAL/BSM and hold until the BSM turns on.**
BSM begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under preset tuning buttons **1–6** in the order of their signal strength. When finished, **BSM** stops flashing.

■ To cancel the storage process, press **LOCAL/BSM**.

Built-in CD Player

Playing a CD

① ② ③

① **RPT indicator**
Shows when repeat play is turned on.

② **Play time indicator**
Shows the elapsed playing time of the current track.

③ **Track number indicator**
Shows the track currently playing.

1 Insert a CD into the CD loading slot.
Playback will automatically start.
■ **Be sure to turn up the label side of a disc.**
■ After a CD has been inserted, press **SOURCE** to select the built-in CD player.
■ You can eject a CD by pressing **EJECT**.

2 Use VOLUME to adjust the sound level.

3 To perform fast forward or reverse, press and hold ◀ or ▶.
■ If you select **ROUGH**, pressing and holding ▼ or ▲ enables you to search every 10 tracks in the current disc. (Refer to *Selecting the search method* on the next page.)

4 To skip back or forward to another track, press ◀ or ▶.
Pressing ▶ skips to the start of the next track. Pressing ◀ once skips to the start of the current track. Pressing again will skip to the previous track.

Notes

• The built-in CD player plays one, standard, 12-cm or 8-cm (single) CD at a time. Do not use an adapter when playing 8-cm CDs.
• Do not insert anything other than a CD into the CD loading slot.
• If an error message such as **ERROR-11** is displayed, refer to *Understanding built-in CD player error messages* on page 23.

Repeating play

Repeat play lets you near the same track over again.

● **Press 5 repeatedly to turn repeat play on or off.**
When repeat play is on, **RPT** appears in the display.
■ If you perform track search or fast forward/reverse, repeat play is automatically cancelled.

Playing tracks in a random order

Random play lets you play back tracks on the CD in a random order.

● **Press 4 repeatedly to turn random play on or off.**
When random play is on, **RDM** appears in the display.

Scanning tracks of a CD

Scan play lets you hear the first 10 seconds of each track on the CD.

Built-in CD Player

1 Press 3 to turn scan play on.
SCAN appears in the display. The first 10 seconds of each track is played.

2 When you find the desired track press 3 to turn scan play off.
■ After scanning of a CD is finished, normal playback of the tracks will begin again. [■]

Pausing CD playback

Pause lets you temporarily stop playback of the CD.

● **Press 6 repeatedly to turn pause on or off.**
When pause is on, PAUSE appears in the display.
■ You can also turn pause on or off by pressing PAUSE. [■]

Selecting the search method

You can switch the search method between fast forward/reverse and searching every 10 tracks.

● **Press 2 to select the search method.**
Press 2 until the desired search method appears in the display.
• FF/REV – Fast forward and reverse
• ROUGH – Searching every 10 tracks [■]

Searching every 10 tracks in the current disc

If a disc contains over 10 tracks, you can search every 10 tracks. When a disc contains a lot of tracks, you can roughly search for the track you want to play.

1 Select the search method ROUGH.
Refer to Selecting the search method on this page.

2 Press and hold ◀ or ▶ to search every 10 tracks on a disc.
■ If a disc contains less than 10 tracks, pressing and holding ▶ recalls the last track of the disc. Also, if the remaining number of tracks after searching every 10 tracks is less than 10, pressing and holding ▶ recalls the last track of the disc.
■ If a disc contains less than 10 tracks, pressing and holding ◀ recalls the first track of the disc. Also, if the remaining number of tracks after searching every 10 tracks is less than 10, pressing and holding ◀ recalls the first track of the disc. [■]

Using compression and BMX

Using the COMP (compression) and BMX functions let you adjust the sound playback quality of this player. Each of the functions have a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. BMX controls sound reverberations to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

● **Press 1 to select your favorite setting.**
Press 1 repeatedly to switch between the following settings:
COMP OFF—COMP 1—COMP 2—
COMP OFF—BMX 1—BMX 2 [■]

English

Built-in CD Player

Using CD TEXT functions

Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as the CD title, track title, artist's name and playback time and are called CD TEXT discs. Only these specially encoded CD TEXT discs support the functions listed below.

● **Press DISPLAY.**
Press DISPLAY repeatedly to switch between the following settings:
Play time—**DISC TTL** (disc title)—**ART NAME** (disc artist name)—**TRK TTL** (track title)—**ART NAME** (track artist name)
■ If specific information has not been recorded on a CD TEXT disc, **NO XXXX** will be displayed (e.g., **NO T-TTL**).

Note

You can scroll to the left the title by pressing and holding **DISPLAY**. [■]

MP3/WMA/WAV Player

Playing MP3/WMA/WAV

1 Folder number indicator
Shows the number of folder currently playing.

2 MP3 indicator
Shows when the MP3 file is playing.

3 WMA indicator
Shows when the WMA file is playing.

4 RPT indicator
Shows when repeat play is turned on.

5 Play time indicator
Shows the elapsed playing time of the current track (file).

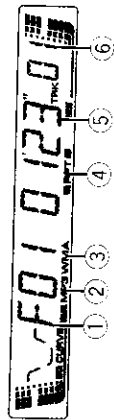**6 Track number indicator**
Shows the track (file) currently playing.
- If a track number 100 to 199 is selected, ▲ on the left of the track number indicator will light.
- If a track number 200 or more is selected, ▲ on the left of the track number indicator will blink.

1 Insert a CD-ROM into the CD loading slot.
Playback will automatically start.
■ Be sure to turn up the label side of a disc.
■ After a CD-ROM has been inserted, press SOURCE to select the built-in CD player.
■ You can eject a CD-ROM by pressing EJECT.

**2 Use VOLUME to adjust the sound level.**

3 Press ▲ or ▼ to select a folder.
■ You cannot select a folder that does not have an MP3/WMA/WAV file recorded in it.
■ To return to folder 01 (ROOT), press and hold BAND. However, if folder 01 (ROOT) contains no files, playback commences with folder 02.

4 To perform fast forward or reverse, press and hold ◄ or ►.
■ This is fast forward and reverse operation only for the file being played. This operation is canceled when the previous or next file is reached.
■ If you select ROUGH, pressing and holding ▼ or ▲ enables you to search every 10 tracks in the current folder. (Refer to *Selecting the search method* on page 16.)

5 To skip back or forward to another track, press ◄ or ►.
Pressing ► skips to the start of the next track. Pressing ◄ once skips to the start of the current track. Pressing again will skip to the previous track.
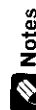
Notes
- When playing discs with MP3/WMA/WAV files and audio data (CD-DA) such as CD-EXTRA and MIXED-MODE CDs, both types can be played only by switching mode between MP3/WMA/WAV and CD-DA with BAND.
- If you have switched between playback of MP3/WMA/WAV files and audio data (CD-DA), playback starts at the first track on the disc.
- The built-in CD player can play back an MP3/WMA/WAV file recorded on CD-ROM. (Refer to page 24 for files that can be played back.)
- Do not insert anything other than a CD into the CD loading slot.
- There is sometimes a delay between starting up CD playback and the sound being issued. When being read in, FRMTREAD is displayed.

MP3/WMA/WAV Player

English

- Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 01 (ROOT) contains no files, playback commences with folder 02.)
- When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or reverse operations are used.
- If the inserted disc contains no files that can be played back, NO AUDIO is displayed.
- If the inserted disc contains WMA files that are protected by digital rights management (DRM), SKIPPED is displayed while the protected file is skipped.
- If all the files on the inserted disc are secured by DRM, PROTECT is displayed.
- There is no sound on fast forward or reverse.
- If an error message such as ERROR-11 is displayed, refer to *Understanding built-in CD player error messages* on page 23.

Repeating play

For MP3/WMA/WAV playback, there are three repeat play ranges: FRPT (folder repeat), RPT (one-track repeat) and disc repeat.

● Press 5 to select the repeat range.
Press 5 until the desired repeat range appears in the display.
- RPT – Repeat just the current track
- FRPT – Repeat the current folder
- Play time (e.g. 01'23") – Repeat all tracks

Notes
- If you select another folder during repeat play, the repeat play range changes to disc repeat.
- If you perform track search or fast forward/reverse during RPT, the repeat play range changes to FRPT.
- When FRPT is selected, it is not possible to play back a subfolder of that folder.

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range: FRPT (folder repeat) and disc repeat.

1 Select the repeat range.
Refer to *Repeating play* on this page.

2 Press 4 repeatedly to turn random play on or off.
When random play is on, RDM appears in the display.
■ If you turn random play on during FRPT, FRDM appears in the display.

Scanning folders and tracks

While you are using FRPT (folder repeat), the beginning of each track in the selected folder plays for about 10 seconds. When you are using disc repeat, the beginning of the first track of each folder is played for about 10 seconds.

1 Select the repeat range.
Refer to *Repeating play* on this page.

2 Press 3 to turn scan play on.
SCAN appears in the display. The first 10 seconds of each track of the current folder (or the first track of each folder) is played.
■ If you turn scan play on during FRPT, FSCN appears in the display.

3 When you find the desired track (or folder) press 3 to turn scan play off.
After track or folder scanning is finished, normal playback of the tracks will begin again.

MP3/WMA/WAV Player

Pausing MP3/WMA/WAV playback

Pause lets you temporarily stop playback of the MP3/WMA/WAV.

• **Press 6 repeatedly to turn pause on or off.**

When pause is on, **PAUSE** appears in the display.

■ You can also turn pause on or off by pressing **PAUSE**.

Selecting the search method

You can switch the search method between fast forward/reverse and searching every 10 tracks.

• **Press 2 to select the search method.**

Press **2** until the desired search method appears in the display.

• **FF/REV** – Fast forward and reverse
• **ROUGH** – Searching every 10 tracks

Searching every 10 tracks in the current folder

If the current folder contains over 10 tracks, you can search every 10 tracks. When one folder contains a lot of tracks, you can roughly search for the track you want to play.

1 Select the search method ROUGH.
Refer to *Selecting the search method* on this page.

2 Press and hold ◄ or ► to search every 10 tracks in the current folder.

■ If the current folder contains less than 10 tracks, pressing and holding ► recalls the last track of the folder. Also, if the remaining number of tracks after searching every 10 tracks is less than 10, pressing and holding ► recalls the last track of the folder.

■ If the current folder contains less than 10 tracks, pressing and holding ◄ recalls the first track of the folder. Also, if the remaining number of tracks after searching every 10 tracks is less than 10, pressing and holding ◄ recalls the first track of the folder.

Using compression and BMX

Using the COMP (compression) and BMX functions let you adjust the sound playback quality of this player. Each of the functions have a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. BMX controls sound reverberations to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

• **Press 1 to select your favorite setting.**
Press **1** repeatedly to switch between the following settings:

COMP OFF—COMP 1—COMP 2—
COMP OFF—BMX 1—BMX 2

Displaying text information on MP3/WMA disc

Text information recorded on a MP3/WMA disc can be displayed.

• **Press DISPLAY.**
Press **DISPLAY** repeatedly to switch between the following settings:

MP3/WMA/WAV Player

English

Play time—**FOLDER** (folder name)—**FILE** (file name)—**TRK TTL** (track title)—**ART NAME** (artist name)—**ALBM TTL** (album title)—**COMMENT** (comment)—Bit rate

■ When playing back MP3 files recorded as VBR (variable bit rate) files, the bit rate value is not displayed even after switching to bit rate. (**VBR** will be displayed.)

■ When playing back WMA files recorded as VBR (variable bit rate) files, the average bit rate value is displayed.

■ If specific information has not been recorded on an MP3/WMA disc, **NO XXXX** will be displayed (e.g., **NO NAME**).

■ With some applications used to encode WMA files, album names and other text information may not be correctly displayed.

Note
You can scroll to the left the text information by pressing and holding **DISPLAY**.

Displaying text information on WAV disc

You can display text information recorded on a WAV disc.

• **Press DISPLAY.**
Press **DISPLAY** repeatedly to switch between the following settings:
Play time—**FOLDER** (folder name)—**FILE** (file name)—Sampling frequency

■ You can only play back WAV files in the frequencies 16, 22.05, 24, 32, 44.1 and 48 kHz (LPCM), or 22.05 and 44.1 kHz (MS ADPCM). The sampling frequency shown in the display may be rounded.

Note
You can scroll to the left the text information by pressing and holding **DISPLAY**.

Audio Adjustments

Introduction of audio adjustments
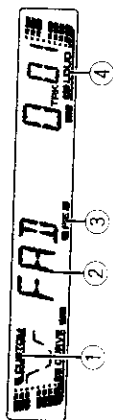
① **CUSTOM indicator**
Shows when custom equalizer curve is currently selected.

② **Audio display**
Shows the audio adjustments status.

③ **FIE indicator**
Shows when the front image enhancer is turned on.

④ **LOUD indicator**
Appears in the display when loudness is turned on.

● **Press AUDIO to display the audio function names.**
Press **AUDIO** repeatedly to switch between the following audio functions:

FAD (balance adjustment)—**EQ** (equalizer)
—**LOUD** (loudness)—**FIE** (front image enhancer)—**SLA** (source level adjustment)

- When selecting the FM tuner as the source, you cannot switch to **SLA**.
- If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display.

■ To return to the display of each source, press **BAND**.

Audio Adjustments

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1. **Press AUDIO to select FAD.**
   - If the balance setting has been previously adjusted, **BAL** will be displayed.

2. **Press ▲ or ▼ to adjust front/rear speaker balance.**
   FAD F15 – FAD R15 is displayed as the front/rear speaker balance moves from front to rear.
   - **FAD 0** is the proper setting when only two speakers are used.

3. **Press ◀ or ▶ to adjust left/right speaker balance.**
   BAL L9 – BAL R9 is displayed as the left/right speaker balance moves from left to right.

Using the equalizer

The equalizer lets you adjust the equalization to match car interior acoustic characteristics as desired.

Recalling equalizer curves

There are six stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Display	Equalizer curve
SPR-BASS	Super bass
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
CUSTOM	Custom
EQ FLAT	Flat

Fine-adjusting equalizer curve

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**EQ-L/EQ-M/EQ-H**).

- **CUSTOM** is an adjusted equalizer curve that you create.
- When **EQ FLAT** is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **EQ FLAT** and a set equalizer curve.

● **Press EQ to select the equalizer.**
Press **EQ** repeatedly to switch between the following equalizers:
SPR-BASS—POWERFUL—NATURAL—VOCAL—CUSTOM—EQ FLAT

Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **CUSTOM**.

- If you make adjustments when a curve other than **CUSTOM** is selected, the newly adjusted curve will replace the previous curve. Then a new curve with **CUSTOM** appears on the display while selecting the equalizer curve.

1. **Press AUDIO to select EQ.**

2. **Press ◀ or ▶ to select the equalizer band to adjust.**
   EQ-L (low)—**EQ-M** (mid)—**EQ-H** (high)

3. **Press ▲ or ▼ to adjust the level of the equalizer band.**
   +6 – –6 is displayed as the level is increased or decreased.
   ■ You can then select another band and adjust the level.

- If you make adjustments when a curve other than **CUSTOM** is selected, the newly adjusted curve will replace the previous curve. Then a new curve with **CUSTOM** appears on the display while selecting the equalizer curve.

1. **Press AUDIO and hold until frequency and the Q factor (e.g., F- 80 Q 1W) appears in the display.**

2. **Press AUDIO to select the desired band for adjustment.**
   Low—Mid—High

3. **Press ◀ or ▶ to select the desired frequency.**
   Low: **40**—**80**—**100**—**160** (Hz)
   Mid: **200**—**500**—**1k**—**2k** (Hz)
   High: **3k**—**8k**—**10k**—**12k** (Hz)

4. **Press ▲ or ▼ to select the desired Q factor.**
   2N—**1N**—**1W**—**2W** (■)

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1. **Press AUDIO to select LOUD.**

Audio Adjustments

2 Press ▲ to turn loudness on.
LOUD indicator is displayed.
▪ To turn loudness off, press ▼.
▪ You can also turn loudness on or off by pressing LOUDNESS.

3 Press ◄ or ► to select a desired level.
LOW (low)—MID (mid)—HI (high)■

Front image enhancer (F.I.E.)

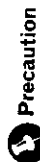The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies. You can select the frequency you want to cut.

Precaution

When the F.I.E. function is deactivated, the rear speakers output sound of all frequencies, not just bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

1 Press AUDIO to select FIE.

2 Press ▲ to turn F.I.E. on.
▪ To turn F.I.E. off, press ▼.

3 Press ◄ or ► to select a desired frequency.
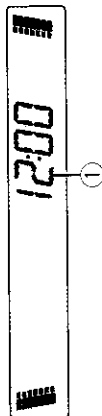100—160—250 (Hz)

Notes

▪ After turning the F.I.E. function on, use the balance adjustment (refer to page 18) and adjust front and rear speaker volume levels until they are balanced.
▪ Turn the F.I.E. function off when using a 2-speaker system. ■

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.
▪ Settings are based on the FM tuner volume level, which remains unchanged.
▪ The AM tuner volume level can also be adjusted with source level adjustments.

1 Compare the FM tuner volume level with the level of the source you wish to adjust.

2 Press AUDIO to select SLA.

3 Press ▲ or ▼ to adjust the source volume.
SLA +4 – SLA –4 is displayed as the source volume is increased or decreased. ■

Initial Settings

Adjusting initial settings

Initial settings lets you perform initial setup of different settings for this unit.

① **Function display**
Shows the function status.

1 Press SOURCE and hold until the unit turns off.

2 Press AUDIO and hold until clock appears in the display.
Press AUDIO repeatedly to switch between the following settings:
Clock—FM (FM tuning step)—AM (AM tuning step)
Use the following instructions to operate each particular setting.
▪ To cancel initial settings, press BAND.
▪ You can also cancel initial settings by holding down AUDIO until the unit turns off. ■

Setting the clock

Use these instructions to set the clock.

1 Press AUDIO to select clock.

2 Press ◄ or ► to select the segment of the clock display you wish to set.
Pressing ◄ or ► will select one segment of the clock display:
Hour—Minute
As you select segments of the clock display, the segment selected will blink.

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3 Press ▲ or ▼ to set the clock.
Pressing ▲ will increase the selected hour or minute. Pressing ▼ will decrease the selected hour or minute.

Turning the clock display on or off

You can turn the clock display on or off.

● **Press CLOCK to turn the clock display on or off.**
Each press of CLOCK turns the clock display on or off.
▪ The clock display disappears temporarily when you perform other operations, but the clock display appears again after 25 seconds. ■

Setting the FM tuning step

The FM tuning step employed by seek tuning can be switched between 100 kHz, the preset step, and 50 kHz.
▪ If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again.

1 Press AUDIO to select FM.

2 Press ◄ or ► to select the FM tuning step.
Press ◄ to select 50 (50 kHz). Press ► to select 100 (100 kHz). ■

Initial Settings

Setting the AM tuning step

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 – 1,602 kHz allowable) to 10 kHz (530 – 1,640 kHz allowable).

1 Press AUDIO to select AM.

2 Press ◀ or ▶ to select the AM tuning step.
Press ◀ to select **9** (9 kHz). Press ▶ to select **10** (10 kHz). ▣

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cracks, scratches or are warped may not play properly. Do not use such discs.
- Avoid touching the recorded (non-printed) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean a CD, wipe the disc with a soft cloth outward from the center.
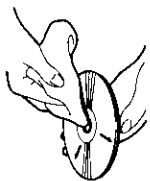
- If the heater is used in cold weather, moisture may form on components inside the CD player. Condensation may cause the CD player to malfunction. If you think that condensation is a problem turn off the CD player for an hour or so to allow it to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt CD playback. ▣

CD-R/CD-RW discs

- When CD-R/CD-RW discs are used, playback is possible only for discs which have been finalized.
- It may not be possible to play back CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc., on the lens of this unit.

Additional Information

Understanding built-in CD player error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to record the error message.

| Message	Cause	Action
ERROR-11, 12, 17, 30	Dirty disc	Clean disc.
ERROR-11, 12, 17, 30	Scratched disc	Replace disc.
ERROR-10, 11, 12, 17, 30, A0	Electrical or mechanical	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
ERROR-22, 23	The CD format cannot be played back	Replace disc.
ERROR-44	All tracks are skip tracks	Replace disc.

CD player and care

- Use only CDs that have either of the two Compact Disc Digital Audio marks as shown below.

- Use only normal, round CDs. If you insert irregular, non-round, shaped CDs they may jam in the CD player or not play properly.

- Check all CDs for cracks, scratches or warping before playing. CDs that have

Additional Information

- Playback of discs recorded on a personal computer may not be possible, depending on the application settings and the environment. Please record with the correct format. (For details, contact the manufacturer of the application.)
- Playback of CD-R/CD-RW discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the vehicle.
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this unit (in the case of audio data (CD-DA)).
- This unit conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped automatically (in case of audio data (CD-DA)).
- If you insert a CD-RW disc into this unit, time to playback will be longer than when you insert a conventional CD or CD-R disc.
- Read the precautions with CD-R/CD-RW discs before using them.

MP3, WMA and WAV files

- MP3 is short for MPEG Audio Layer 3 and refers to an audio compression technology standard.
- WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.
- WAV is short for waveform. It is a standard audio file format for Windows®.
- With some applications used to encode WMA files, this unit may not operate correctly.
- With some applications used to encode WMA files, album names and other text information may not be correctly displayed.

- This unit allows playback of MP3/WMA/WAV files on CD-ROM, CD-R and CD-RW discs. Disc recordings compatible with level 1 and level 2 of ISO9660 and with the Romeo and Joliet file system can be played back.
- It is possible to play back multi-session compatible recorded discs.
- MP3/WMA/WAV files are not compatible with packet write data transfer.
- The maximum number of characters which can be displayed for a file name, including the extension (.mp3, .wma or .wav), is 64, from the first character.
- The maximum number of characters which can be displayed for a folder name is 64.
- In case of files recorded according to the Romeo file system, only the first 64 characters can be displayed.
- When playing discs with MP3/WMA/WAV files and audio data (CD-DA) such as CD-EXTRA and MIXED-MODE CDs, both types can be played only by switching mode between MP3/WMA/WAV and CD-DA.
- The folder selection sequence for playback and other operations becomes the writing sequence used by the writing software. For this reason, the expected sequence at the time of playback may not coincide with the actual playback sequence. However, there also is some writing software which permits setting of the playback order.
- Some audio CDs contain tracks that merge into one another without a pause. When these discs are converted to MP3/WMA/WAV files and burned to a CD-R/CD-RW/CD-ROM, the files will be played back on this player with a short pause between each one, regardless of the length of the pause between tracks on the original audio CD.

Additional Information

from 48 kbps to 320 kbps (CBR) or from 48 kbps to 384 kbps (VBR), but in order to be able to enjoy sound of a certain quality, we recommend using discs recorded with a higher bit rate.
- This unit doesn't support the following formats.
  — Windows Media Audio 9 Professional (5.1ch)
  — Windows Media Audio 9 Lossless
  — Windows Media Audio 9 Voice

Important

- When naming an MP3/WMA/WAV file, add the corresponding filename extension (.mp3, .wma or .wav).
- This unit plays back files with the filename extension (.mp3, .wma or .wav) as an MP3/WMA/WAV file. To prevent noise and malfunctions, do not use these extensions for files other than MP3/WMA/WAV files.

MP3 additional information

- Files are compatible with the ID3 Tag Ver. 1.0, 1.1, 2.2, 2.3 and 2.4 formats for display of album (disc title), track (track title), artist (track artist) and comments. Ver. 2.x of ID3 Tag is given priority when both Ver. 1.x and Ver. 2.x exist.
- The emphasis function is valid only when MP3 files of 32, 44.1 and 48 kHz frequencies are played back. (16, 22.05, 24, 32, 44.1, 48 kHz sampling frequencies can be played back.)
- There is no m3u playlist compatibility.
- There is no compatibility with the MP3i (MP3 interactive) or mp3 PRO formats.
- The sound quality of MP3 files generally becomes better with an increased bit rate. This unit can play recordings with bit rates from 8 kbps to 320 kbps, but in order to be able to enjoy sound of a certain quality, we recommend using only discs recorded with a bit rate of at least 128 kbps.

WMA additional information

- This unit plays back WMA files encoded by Windows Media Player version 7, 7.1, 8 and 9.
- You can only play back WMA files in the frequencies 32, 44.1 and 48 kHz.
- The sound quality of WMA files generally becomes better with an increased bit rate. This unit can play recordings with bit rates
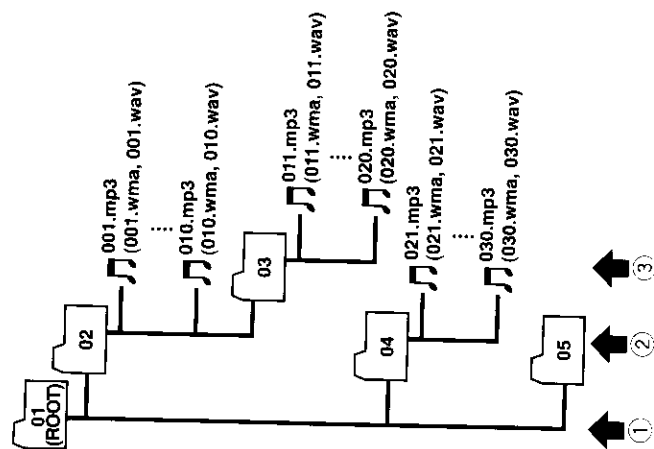
WAV additional information

- This unit plays back WAV files encoded in Linear PCM (LPCM) format or MS ADPCM format.
- You can only play back WAV files in the frequencies 16, 22.05, 24, 32, 44.1 and 48 kHz (LPCM), or 22.05 and 44.1 kHz (MS ADPCM). The sampling frequency shown in the display may be rounded.
- The sound quality of WAV files generally becomes better with a larger number of quantization bits. This unit can play recordings with 8 and 16 (LPCM) or 4 (MS ADPCM) quantization bits, but in order to be able to enjoy sound of a certain quality, we recommend using discs recorded with the larger number of quantization bits.

About folders and MP3/WMA/WAV files

- An outline of a CD-ROM with MP3/WMA/WAV files on it is shown below. Subfolders are shown as folders in the folder currently selected.

Additional Information

Terms

Bit rate

This expresses data volume per second, or bps units (bits per second). The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

ID3 tag

This is a method of embedding track-related information in an MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted as to the number of characters, the information can be viewed when the track is played back.

ISO9660 format

This is the international standard for the format logic of CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels.

Level 1:

The file name is in 8.3 format (the name consists of up to 8 characters, half-byte English capital letters and half-byte numerals and the "_" sign, with a file-extension of three characters.)

Level 2:

The file name can have up to 31 characters (including the separation mark "." and a file extension). Each folder contains less than 8 hierarchies.

Extended formats

Joliet:
File names can have up to 64 characters.
Romeo:
File names can have up to 128 characters.

Linear PCM (LPCM)/Pulse code modulation

This stands for linear pulse code modulation, which is the signal recording system used for music CDs and DVDs.

m3u

Playlists created using the "WINAMP" software have a playlist file extension (.m3u).

MP3

MP3 is short for MPEG Audio Layer 3. It is an audio compression standard set by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the level of a conventional disc.

MS ADPCM

This stands for Microsoft adaptive differential pulse code modulation, which is the signal recording system used for the multimedia software of Microsoft Corporation.

Multi-session

Multi-session is a recording method that allows additional data to be recorded later. When recording data on a CD-ROM, CD-R or CD-RW, etc., all data from beginning to end is treated as a single unit or session. Multi-session is a method of recording more than 2 sessions on one disc.

Number of quantization bits

The number of quantization bits is one factor in the overall sound quality; the higher the "bit-depth", the better the sound quality. However, increasing the bit-depth also increases the amount of data and therefore storage space required.

Additional Information

① **First level**

② **Second level**

③ **Third level**

Notes

- This unit assigns folder numbers. The user can not assign folder numbers.
- It is not possible to check folders that do not include MP3/WMA/WAV files. (These folders will be skipped without displaying the folder number.)
- MP3/WMA/WAV files in up to 8 tiers of folders can be played back. However, there is a delay in the start of playback on discs with numerous tiers. For this reason we recommend creating discs with no more than 2 tiers.
- It is possible to play back up to 99 folders on one disc. ■

English

Additional Information

Additional Information

Packet write

This is a general term for a method of writing on CD-R, etc., at the time required for a file. just as is done with files on floppy or hard discs.

VBR

VBR is short for variable bit rate. Generally speaking CBR (constant bit rate) is more widely used. But by flexibly adjusting the bit rate according to the needs of audio compression, it is possible to achieve compression-priority sound quality.

WAV

WAV is short for waveform. It is a standard audio file format for Windows®.

WMA

WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later. Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries. [■]

Specifications

General

Rated power source	14.4 V DC (allowable voltage range. 12.0 – 14.4 V DC)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis	178 × 50 × 157 mm
Nose	188 × 58 × 19 mm
D	
Chassis	178 × 50 × 162 mm
Nose	170 × 48 × 14 mm
Weight	1.3 kg

Audio

Continuous power output is 22 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.

Maximum power output	50 W × 4
Load impedance	4 Ω (4 – 8 Ω allowable)
Preout max output level/output impedance	2.2 V/1 kΩ
Equalizer (3-Band Parametric Equalizer):	
Low	
Frequency	40/80/100/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Mid	
Frequency	200/500/1k/2k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
High	
Frequency	3.15k/8k/10k/12.5k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Loudness contour	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: –30 dB)

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format:	
Sampling frequency	44.1 kHz
Number of quantization bits	16; linear
Frequency characteristics	5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A network)
Dynamic range	92 dB (1 kHz)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9 (2ch audio)
WAV signal format	Linear PCM & MS ADPCM

FM tuner

Frequency range	87.5 – 108.0 MHz
Usable sensitivity	8 dBf (0.7 µV/75 Ω mono. S/N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 µV/75 Ω, mono)
Signal-to-noise ratio	75 dB (IEC-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz. stereo) 0.1 % (at 65 dBf, 1 kHz. mono)
Frequency response	30 – 15,000 Hz (+3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range	531 – 1,602 kHz (9 kHz) 530 – 1,640 kHz (10 kHz)
Usable sensitivity	18 µV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IEC-A network)

Infrared remote control

Wavelength	940 nm ±50 nm
Output	typ: 12 mw/sr per Infrared LED

■ Note

Specifications and the design are subject to possible modifications without notice due to improvements. [■]